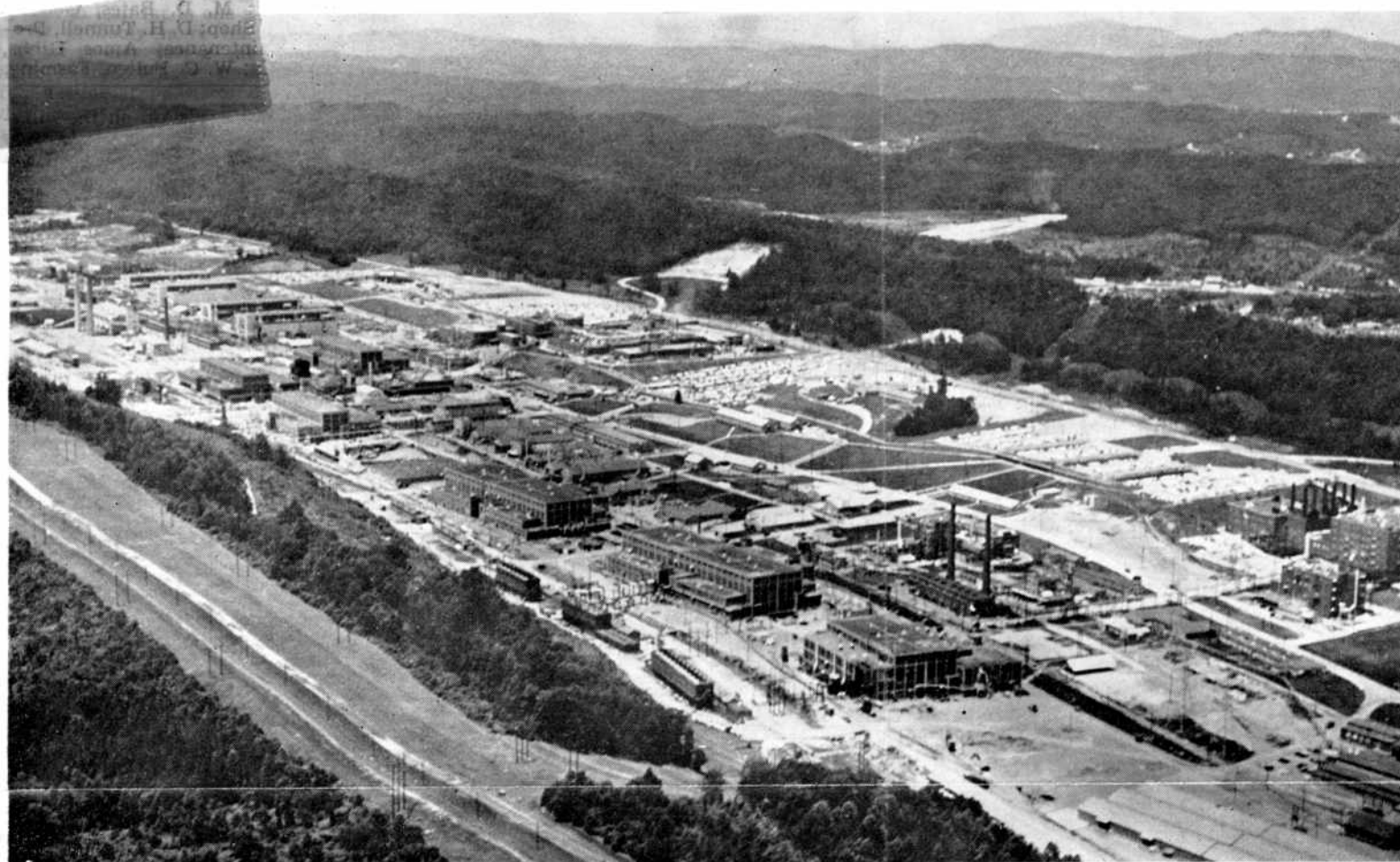


## INTERESTING CU MEETING SET FOR JANUARY 20th



THIS IS THE LATEST ATOMIC ENERGY COMMISSION aerial photograph of the Y-12 Plant. The graphic picture was taken from an airplane flying over Pole Cat

Ridge, looking toward the North. The fine picture has been cleared for publication by the Commission and Carbide security authorities.

## New Legislation To Be Described; Officers Named

**Big Attendance Urged By President Ketron At Next Week's Session**

The annual membership meeting of the Y-12 Employees Credit Union set for next Wednesday night, January 20, was described last week by officials of the group as probably one of the most important and interesting in the 10-year history of the organization. In addition to election of members of the board of directors and the credit committee, Credit Union members will be told of sweeping changes made by Congress in affairs of such organizations as they apply to the Y-12 body.

The meeting will be at 7:30 p.m. in the Ridge Recreation Hall, and President C. V. Ketron has urged all members (shareholders) to turn out for the important session.

### Board Declares Dividend

The new legislation regulating credit unions now makes it mandatory that the board of directors declare the annual dividend rather than to have the rate set by a membership vote, as has been done previously by the Y-12 group on recommendation of the board. The legislation also specifies that the board appoint members of the supervisory committee, instead of having members of this "watchdog" committee elected by the membership. Another major change in the law permits paid office employees of the Credit Union to serve on the credit committee as a means of expediting work of this committee and improve service to all members.

A slate of candidates to fill vacancies on the board of directors and the credit committee was completed last week by a nominating committee headed by J. Clyde Bowles, Mechanical Inspection. Other members of the committee are H. N. Benninghoff, of the Shift Superintendents and Utilities Division; and James E. Campbell, Industrial Relations Administration.

### Two Proposed For Relection

Two of the three members of the present board of directors whose terms expire this year were proposed for reelection by the nominating committee. They are Ketron, Oak Ridge National Laboratory employee in the Y-12 Plant Area, who is completing his second term as president; and Mrs. Lorena Causey, treasurer and general manager who has held that position since August 1, 1950. H. R. Gwinn, Special Testing, the third retiring member of the board, has said he would not be available to serve another term. In the place of Gwinn, the nominating committee has submitted the name of W. E. Davis, Security, whose term as a member of the credit committee is expiring.

Holdover board members are Vice President W. R. McGill, Fire Department; Secretary John E. Perry, Development Operations; J. P. Blakely, ORNL employee in the Y-12 Plant; and T. J. Stephens, Plant Records.

### Will Serve Three Years

Under the new credit union legislation, board members will be elected for terms of three years instead of two as formerly.

Continued on Page 3

## Falls And Their Results Often Unpredictable—But Tumbles Can Be Avoided By Working Safely

The type and extent of injuries resulting from falls is truly unpredictable — take it from the Y-12 Safety Department. Falls from high places usually are fatal to the tumbler—but not always. Still, falls from low elevations also can result in serious trouble and injury.

So—concludes the Safety Department with utmost logic—to avoid such mishaps the best thing to do is to avoid falling.

### Two Vulnerable Spots

Perhaps the most vulnerable spots from which to fall are stairways and ladders. (See sketches with this story.)

There's probably no place where one can fall any easier—or harder—than on a stairway. Stairway falls also almost result in serious injuries to the mishap victims.

For instance—take a peek at the sketch at right—of the traffic congestion of this stairway. How many causes of falls can be seen in the picture?

Well, from top let's take a look. The character at the head of the stairway is carrying an armful of articles that block his view of the steps below. Then, just to his left and slightly ahead of the package carrier is a fellow apparently in a hurry to pass—so much in a hurry that he is violating one of the cardinal rules of safety in negotiating stairways. He is running!

### Both Facing Bad Trouble

Both of these chaps are facing trouble—bad trouble. Off balance—a slight bumping collision could send both tumbling.

Then comes the man taking two or three steps at a time in ascending the stairway. He must be hale and hearty—up to this time, any-



how—for he isn't even using the hand rail and likewise is not even looking where he is stepping. If those first two potential casualties have their probable collision—the hale and hearty climber probably won't be that way very long.

Now, take a glance at the chap at far right. It seems as if he had been carrying some items upstairs—and dropped one of them. Turning around to pick up the dropped article—he places the biggest majority of his load—where? Right on the steps.

Now, if all the impending doom to the other three characters takes place—there's going to be one fine conglomeration of sprawling humanity at the bottom of the stairway. There might be some broken arms, broken legs and other serious injuries sustained by one or more of the fall victims.

### How Falls Could Be Avoided

There are four safe practices—which, if observed—could have prevented a fall by any one or all of these persons. They are (1) taking sufficient time, (2) looking where to

### SAFETY SCOREBOARD

The Y-12 Plant Has Operated

31 Days Or 893,000 Man-Hours

(Unofficial Estimate)

Without A Disabling Injury

Through January 10

Phone 7755

For Daily Report On Accident-Free Hours

step, (3) using hand rails, and (4) keeping stairway steps free of objects.

It might be added that torn trouser cuffs and high heels add extra hazards on stairways.

The sketch below shows some of the dangers in misuse of a ladder—a piece of equipment that is absolutely necessary in many phases of work in the Y-12 Plant and also one that can "turn and bite" its user unless proper precautions are taken.

Continued on Page 3



## Quality Control Group Offers Second Meeting

**Interesting Talks Set For Thursday Night**

Two speakers will be presented at the second "Something For Everyone" meeting sponsored by the Tennessee Section of the American Society for Quality Control. The meeting will be at 7:30 o'clock tomorrow night, Thursday, January 14, in the Continental Room of the Oak Terrace.

The first speaker at the meeting will be Chester T. Raymo, quality manager of the American Lava Corp., Chattanooga, Tenn. He will discuss "Statistical Quality Control Versus Intuitive Inspection." The other speaker will be Stephen Bleier, chief inspector of the Knoxville Division of the Rohm and Haas Co. His subject will be "Optical Inspection of Plexiglass Sheet."

The "Something For Everyone" meetings are designed by the ASQC to provide material of interest to persons concerned with any phase of a total quality control function.

## AIEE Meeting Will Hear Westinghouse Man Speak

Don Pisarcik, of the Westinghouse Electric Corp., Youngwood, Pa., will speak at a meeting of the Oak Ridge Section of the American Institute of Electrical Engineers tomorrow night, Thursday, January 14. The meeting will be at 7:30 o'clock at the Oak Ridge Recreation Hall. The speaker's topic will be "Transistors and High Current Rectifiers." The public is invited to attend.



# The Bulletin

Published Weekly By And For  
Y-12 Employees Of  
UNION CARBIDE  
NUCLEAR COMPANY  
Division Of  
Union Carbide Corporation

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## Mechanical Operations Y-12ers Are Promoted

**Aytes And Webster  
Receive Advancements**



J. R. Aytes E. P. Webster

Two Y-12ers in the Mechanical Operations Division entered the new year of 1960 with promotions. They are James Ray Aytes, Sunflower Shop, advanced from experimental machinist to order detailer and estimator; and Edmon Pate Webster, promoted from welder to foreman in Z Area. The Aytes promotion was effective December 21, 1959; while Webster's advancement went in force on January 1 of this year.

Aytes originally became a Y-12er on August 10, 1944, but resigned about a year later. He was rehired on July 17, 1950. Aytes was born November 9, 1907, in Bauxite, Ark., and attended Koota, Okla., High School. He also attended the Ford Motor Co., Training School in Detroit, Mich.

Webster came to work in Y-12 on July 19, 1951. He is a native of Laurinburg, N. C., and attended Technical High School in Charlotte, N. C.

## Y-12ers With 15, 10 Years Company Service

Congratulations to the Y-12 employees listed below who will complete 15 and 10 years of Company Service within the next few days.

### 15 YEARS

**John T. Byrum**, Guard, January 14.

**Helen P. Holsopple**, Production Analysis, January 15.

**Jane H. McGlothlan**, Beta Two, January 15.

**Paul E. Whillock**, Enriched Uranium Recovery, January 15.

**Bernard B. Foster**, Electrical Maintenance, January 16.

**Cecil C. Sharp**, Research Services, January 16.

**Kermit L. Duncan**, Salvage, January 18.

**Ira T. Smith**, Laundry, January 19.

### 10 YEARS

**Roy Roberts**, Radiation Safety, January 16.

**Albert T. VanDyke**, Colex Laboratory, January 16.

## Three Y-12ers Attend Meet Of NIM In Atlanta, Ga.

Three Y-12ers attended a recent conference on maintenance work standards held by the National Institute of Management, of Cleveland, Ohio. The meeting was held in the Atlanta, Ga., Biltmore Hotel, December 14 and 15. The Y-12ers were J. W. Ebert, Superintendent of the Maintenance Division; General Foreman Walter M. Williams, Jr., and Foreman R. W. Hayes, both of Maintenance Planning.



For the past several years the Colyum Conductor has been confined to quarters on the second floor of Barn-Dash-Two and many an idiosyncrasy (accent on the last syllable) of said CC has been ascribed to the rarified atmosphere to which he was subjected. Now, on returning to rooms on the ground floor and needing no elevators, helicopters or the oxygen mask used to relieve the atmospheric ailments suffered—the OI CC is offering—at reduced cost, or might even swap for anything of equal value, one slightly used oxygen mask. He might accept adjustable muzzle for one or two obstreperous intruders—no, nary a name, the libel insurance ain't paid up.

So, now in a nearer sea level sanctum, let's level off with what's what around the premises.

### ENGINEERING

With the Christmas and New Year's holidays over, the boys in Civil and Architectural Engineering have returned to work (says Gus Angele, the Colyum's private eye down there—and it is wished that Gus wouldn't use that word "work" so loosely) . . . The afore-said Angele attended a week-end meeting of the United States Power Squadron in New York . . . W. S. Ingle was vacationing last week, the first C&A man away this year—awaiting the arrival of his income tax exemption of 1960 . . . F. D. Dickey is back from vacation and complained about last week's snow—said it was a week late as he spent the last of 1959 just waiting for such an occurrence . . . R. D. Thompson has had an eventful several days—he has recovered from an accident caused by his overcoat being caught in the door of his automobile that prevented him from steering away from a power pole. More complications arose, however when he traded his wrecked vehicle for another that formerly belonged to an Oak Ridge "delivery boy." Seems as how many pals (?) recognized the new vehicle, but it isn't believed R. D. will get any of the former owner's trade. Meanwhile, back at the Thompson residence, R. D. is housekeeper as well as wage earner as his wife is recovering from an accident herself . . . W. H. Rice spent his vacation at home in Karns cleaning up his house and storing his boat for the winter . . . J. O. Evans is having quite a battle with the flu bug, and get well wishes are wafted his way.

Mechanical Engineering, since last in print, reports both joys and sorrows for its folks during the holidays . . . The E. E. Palmers here were among those who shared in the joys of the season, but only by a narrow margin as his mother, Mrs. Gertrude Beckwith, narrowly escaped with her life when the apartment house in which she lived in Waterbury, Conn., burned to the ground . . . Joy came to the B. L. Hammer household when Santa and the Stork collaborated on a Christmas Eve mission, bringing an eight-pound, one-half ounce son, Benjamin Joseph, as the finest gift of all. This makes the Hammer's son No. 2 among their seven children—so congratulations . . . Among the joys for Clara Hickey and hubby was the winning of top honors in Rockwood in the Christmas decorating contest . . . The Carl Greens experienced a little bit of both emotions—joy in that their son, Lannie, was in the Knox Central High School band at the Gator Bowl in Jacksonville—and rather deep concern more recently when Mrs. Green and another son, Carter, suffered painful injuries in a traffic accident last week. Speedy recovery wishes are extended to them . . . Sympathy goes to Bee-man Fox, whose grandmother died last week at her home in Chestnut Hill, Tenn. . . James U. Price, one

of the ME co-oppers, has returned to his classes at Auburn University in Alabama . . . Meanwhile, Roger Davis, Lawrenceburg, Tenn., and a University of Tennessee student, came to the department for some practical engineering training.

Industrial Engineering extends condolences to **Floyd Downs**, whose father, F. M. Downs, Sr., died in Dearborn, Mich., shortly before Christmas. Mr. Downs formerly was a construction engineer with the J. A. Jones Co. at the Oak Ridge National Laboratory and Oak Ridge Gaseous Diffusion Plant.

### FINANCE AND MATERIALS

Get well wishes are extended **John Henley**, Engineering Records, who is on the sick list.

The Mail Room rolled out its best welcome mat recently for **Ernest Duncan**, Cecil W. Smith and S. P. Eubanks, transferred to the group from other departments.

Last week's issue of The Bulletin could have been called the "bride edition" what with four weddings covered. For this go 'round, a rash of baby pictures have been submitted—all of them charming. The Colyum assures one and all contributors of photographs of their little darlings that they will be published—some this week, some next week and all as soon as space permits.

### TECHNICAL

Here's the first two of the fine baby pictures in the Colyum files. They are the progeny of **Paul Long**, a physicist in Special Training and a Y-12er since April 23,



David Long

Susan Long

1951. Adoring "big brother" David, two years and five months old, is just waiting for the day when "little sister" Susan, two months and 10 days old when picture was made, can come out and play with him. Susan was born September 23, 1959, at Oak Ridge Hospital and now weighs 12 pounds, 11½ ounces. The Longs live at 111 Vista Trail over in Concord.

Holiday vacationers from Special Projects included **Ronnie Austin**, **George Lockhart**, **Stan Hull**, **Don Woolbridge**, **Ernie Zurcher** and **Chet Borge** . . . The Woody Woodpecker sounds emitting from the department's Bldg. 9212 offices turned out to be caused by **Jim Warner** riveting his 1960 calendar to the wall . . . **Larry Rinderer** must have been given Uncle Sam's Sure-Cure Tonic while he was in service because when he returned from his hitch it was discovered he had lost weight and his hair had grown back—now he's going to get married (see notice elsewhere this page) . . . After spending a week end with his brother-in-law in Morristown hunting and fishing, **Harvey Hankins** is limbering up getting ready to dig a basement for the foundation of his new home . . . **Harold Williams** is tinkering, putting and (mostly) contemplating preparations for overhauling his airplane for super-summer flying weather.

### MAINTENANCE

The Mechanical Maintenance group in Alpha Four made good use of their Christmas card money last month—to make others happy. They collected \$174.50 for **C. P. Darnell**, a fellow employee who



Miss Geraldine Perry



### PERRY-RINDERER

The engagement of Miss Geraldine Perry, 124 Wabash Lane, Oak Ridge, to Larry Thomas Rinderer, of the Y-12 Special Projects Department, has been announced by the mother of the bride-elect. No date has been set for the wedding.

The bride-elect is the daughter of Mrs. Celestine Perry and the late Mr. Perry.

Parents of the bridegroom-elect are C. A. "Pete" Rinderer, of the Y-12 Process Maintenance Division, and Mrs. Rinderer. They live at 102 Decatur Road, Oak Ridge.

Both Miss Perry and Rinderer attended Oak Ridge High School. She now is attending Knoxville Business College. He also attended the University of Tennessee and Tennessee Polytechnic Institute, Cookeville, before coming to work for Carbide.

has been out sick for some time—also \$33 for the Crippled Children's Hospital in Knoxville . . . Hope Santa didn't misplace any of **Walt Simmons** Christmas gifts because his holiday destination was misstated in the Colyum—he reports he didn't go to Chicago, but still had a good vacation . . . Sympathy is extended **Al Groppe**, whose sister, Mrs. Charles Masser, died recently in Cudahy, Wis. . . . Get well wishes are rushed out to **R. J. West**, **P. Pelfrey**, **C. H. Caldwell**, **I. H. Bell**, **W. D. Dixon**, **W. H. Miller** and **E. L. Sheffield**—and also to the previously mentioned **C. P. Darnell**.

Research Services extends condolences to **Don Hill**, whose mother died recently in Williamsport, Pa. . . . Likewise to **Evan Means**, whose father-in-law died a few days ago . . . **W. R. Jones** is cornering everyone in reach to tell about his first grandchild—a son, William Riddell Jones, III, born to the Rev. and Mrs. W. R. Jones, Jr. The father is pastor of the First Presbyterian Church at Kingsport, Tenn. . . . A lot of rapid recovery wishes are sent out by the department—to **Hubert Tripp**, hurt in a traffic mishap, **G. T. Halmontaler**, **J. W. Webb**, **F. J. Salts**, **E. T. O'Rourke**, **E. H. Gouge**, **V. B. Williams** and **G. D. DeLozier**.

### MECHANICAL OPERATIONS

This little lady reigning in repose is **Linda Michelle Hendrix**, granddaughter and apple of the eye of **L. B. Morrow**, General Machine Shop. The cute li'l gal is four and one-half months old and her mother is Mrs. F. J. Hendrix, daughter of the Y-12er. The Hendrix family lives in Lineville, Ala., where the father is employed. **Eddie Webster**, Z Area's gift to the golfing world, is the Proud



Get well wishes are extended the following Y-12 employees who were patients last week in the Oak Ridge Hospital:

**Edna Stooksbury**, Electrical Maintenance; **G. T. Halmontaler** and **F. J. Salts**, Research Services; **Edridge Collins**, Mechanical Maintenance; **Sylvia G. Smith**, Laboratory Operations; **W. D. McGhee**, Chemical; **M. D. Bates**, General Machine Shop; **D. H. Tunnell**, Process Maintenance; **Amos Gibbs**, Receiving; **W. C. Pullen**, Forming.

Pop of the week up on the hill—his new son, **Stephen Dale**, was born December 15, 1959, weighing seven pounds, nine ounces . . . **Elinor Charpie** has announced the birth of her 13th grandchild with the birth on December 19, 1959, of **Janice Lee Nehring**, weighing six pounds, eight ounces. That just about places her on top of the list of Y-12 grandparents in number of grandchildren—any doubters or questioners? . . . Congratulations to the artistic efforts of **Victor Henegar** for winning third place in the Christmas home lighting contest at LaFollette and to **Steve Pelizzari** for finishing third in a similar contest in Clinton . . . **N. O. Patty** and **H. E. Hensley** were warmly welcomed to the department recently.

The Assembly Group of the Beta Four Heavy Machine Shop sends condolences to **W. C. Kitchings**, whose grandmother, Mrs. Jodie Watson, of Loudon, died last week . . . The Welding and Forming Group reports **B. G. Hughes** vacationed in Florida—fishing, of course . . . Get well wishes are rushed to **R. H. Turner** in St. Mary's Hospital in Knoxville.

The TW Shop sends get well wishes to **L. H. Russell**, **J. C. Kendrick**, **W. F. Henline**, **R. K. Carper**, **P. A. Fritts** and **R. W. Hagood** . . . **H. E. Stout** is welcomed back after a three-week illness.

### INDUSTRIAL RELATIONS

The little guy with the big smile who presides in the pulpit on Floor One of Bldg. 9704-2, **Shirley Honeycutt**, of the Boys in Blue and Gray, is vacationing this week. He vows he is going to take himself and his missus to That Store in Knoxville with the escalator—he's going to ride one up and she the other one down—then they will wave at each other. Such fun . . . Meanwhile, **Liz Campbell**, the Colyum's agent around the Fire Hall says "there is no news from this end of the woods, but fishing is just around the bend."

### SHIFT SUPERINTENDENTS AND UTILITIES

Utilities sends rapid recovery wishes to **J. L. Messenger**, on the ailing list.

That dull thud heard during the blizzard last week was the crunch of the body of the goof that rambled down the hall singing "June in January" as his carcass bounced after being tossed from a third-story window.





## Falls Unpredictable But Can Be Avoided

Continued from Page 1

In the ladder sketch the gent aboard seemingly is taking every opportunity to fall—and fall hard. First, the ladder most patently is not suited to the job. It is not placed securely, as just a little slip would hurl the man from the ladder to whatever is below, however far it may be. Then—just to add variety to his violations of safe practice rules, he has not kept the ladder close to the job he is doing, requiring him to lean far to one side. Just one of probably more mistakes is that he is not facing the ladder where he might have a chance to grab a rung if he starts to fall—which seems a most probable aftermath of his actions.

The preceding descriptions of hazards that can cause damaging falls are just a few of the many circumstances that can combine to bring about such mishaps.

Indoors and outdoors—slippery floors and walks beckon to fate to sneak up on some unsuspecting prospective victim. There is especial danger wherever oil, grease or other slippery substances may be spilled on floors.

### Good Housekeeping Important

Good housekeeping can eliminate many of these hazards. Spillage should be prevented wherever possible. If it is not possible—pans should be used to catch the unavoidable drippings. If there are spills, they should be cleaned up immediately. If walking is necessary in areas where such hazards might exist, shoes should be used with the best possible traction—and then careful walking is a "must" to avoid a possible fall.

Summing up the major precautions that can prevent falls and ensuing injuries—three major points can be cited—

Select the right kind of equipment. Use and maintain it safely.

Practice good housekeeping.

Look before stepping. Be alert and careful. At home, or at work, "watch your step" and don't be in so much of a hurry as to become a potential accident statistic.

### ARMOR GROWS HEAVY

Knights of the Middle Ages wore armor for their protection in battle and duels. A suit of chain mail weighed 30 pounds and ordinary complete plate weighed 50 pounds. For jousting in tournaments the heavy equipment weighed up to 100 pounds.

Report to proper authorities any unusual incidents or circumstances concerning plant security, especially suspected espionage and sabotage.



IF THEY DON'T  
NEED TO KNOW

DON'T TELL 'EM!

## Slogan Tells One Of Fundamental Rules Of Security Regulations In Y-12 Plant

One of the fundamental rules in the security regulations for the Y-12 Plant and other installations doing contract work for the Atomic Energy Commission and other governmental agencies is stressed in the drawing above.

The responsibility for enforcing the regulation rests squarely on the shoulders of any Y-12er who has classified defense information in his possession or under his control, according to the United States Department of Defense.

Two tests must be applied before it can be decided if a person seeking information has a "need to know."

The first test—Is the informa-



HERE'S A PART OF THE BIG CROWD that enjoyed the Y-12 Christmas Dance December 18 at the Oak Terrace. After spinning over the floor to the tuneful tunes of



Papa John Gordy's Dixielander Band from Nashville, left, the guests relax at their tables, right, before undertaking another fling.

## Master's Degrees Awarded To Two Men Of Carbide

Two Carbide employees in Oak Ridge recently received master of science degrees from the University of Tennessee last month. They are W. E. Williams, assistant to T. E. Lane, General Superintendent of Industrial Relations; and E. C. Denny, of the Oak Ridge Gas-eous Diffusion Plant Physics Department.



W. E. Williams

Williams received his master's degree in Industrial Management. His thesis was entitled "An Analysis of Arbitration Cases Involving Workload Assignments." He is well-known in the Y-12 Plant. After studying at Rice Institute and graduating from the University of Colorado, he began work with Union Carbide Corporation at Cleveland, Ohio, with the National Carbon Company. He later went with Union Carbide Plastics Company at Bound Brook, N.J. In 1951 he was transferred to Oak Ridge from UCC in New York.

Denny was awarded his master's degree in physics.

### HANNAN NAMED DIRECTOR

Kenneth B. Hannan, executive vice president of Union Carbide Corporation, has been elected director of the Federal Reserve Bank of New York City. Directors are named for three-year terms to help form a monetary policy for the New York district.

## AEC Tests Light Weight SNAP Reactor To Provide Electric Power For Missiles

### Interesting CU Meet Set For January 20

Continued from Page 1

In accordance with the new legislation permitting Credit Union employees to serve on the credit committee, the nominating group selected Mrs. Causey and Fred Wilkinson, office manager, to serve in this capacity. Also nominated was W. C. Moisson, Maintenance Planning. Credit committee holdovers are E. G. Richardson, Safety; and Paul Griffin, ORNL. Under new regulations, there may be from three to seven members on the credit committee and the Y-12 organization decided on five.

Two members of the present supervisory committee, E. E. Goode, Cashier and Travel; and A. L. Conte, Project Engineering; have one more year of their terms to serve and will continue on the committee. Under the new legislation, the board will appoint one member to fill the third post on the supervisory committee. The term of C. M. West, Radiation Safety, expires this year.

### Rides Wanted, Offered

Riders wanted from Clinton to any portal, straight day. C. D. Bennett, plant phone 7156, home phone Clinton 902.

Ride wanted or will join car pool from 152 California Ave., Oak Ridge, to North or Central Portal, straight day. W. M. Parks, plant phone 7162, home phone Oak Ridge 5-6592.

Ride wanted from 3701 Alpine Ave., South Knoxville, to Bear Creek Portal, straight day. Conrad Strike, plant phone 7-8807, home phone Knoxville 7-9512.

Riders wanted from Walnut Hills, Harriman, or points between to West or Bear Creek or West Portal, straight day. Raymond Curtis, plant phone 7994, home phone Harriman 2407.

Two riders wanted from Powell to any portal, straight day. W. H. Donahue, plant phone 7411, home phone Knoxville, then dial WH 7-7021.



### 220-Pound Device Uses Enriched Uranium

John A. McCone, Chairman of the Atomic Energy Commission, announced at the annual meeting of the American Rocket Society in Washington that the prototype of a light weight, high temperature nuclear reactor to generate heat for the production of three kilowatts of electric power for space vehicles has been test-operated at design power and temperature. The reactor, designated SNAP Experimental Reactor, is comparable in size to a five-gallon can. It weighs approximately 220 pounds without shielding and is fueled with enriched uranium.

The reactor was designed and constructed for the Commission by Atomics International, a division of North American Aviation, Inc., Canoga Park, Cal., as part of a program to develop systems for nuclear auxiliary power. The reactor is located in a Commission facility operated by the company in the Santa Susana mountains 25 miles from Los Angeles.

### Mercury Vapor Used

In an operational device, heat from the reactor would be transferred by a liquid sodium coolant to a boiler containing mercury. The mercury vapor would be directed into a miniature turbine. The system would operate on the same principle as ordinary steam-electric generators except that the mercury vapor rather than steam would be used to drive the turbine. Such a conversion system has been developed and successfully operated at design conditions with an electrical heat source. The components of the power conversion system were developed by Thompson Ramo Wooldridge, Inc., Cleveland, Ohio.

The SNAP Experimental Reactor takes its name from the Commission program under which it was developed—Systems for Nuclear Auxiliary Power. The objective of this program is the development of compact sources of auxiliary electric power for space vehicle systems. Two basic concepts are being followed. One concept, being developed for the Commission by The Martin Co., Baltimore, Md., will use the heat from a radioactive isotope to operate electrical power conversion equipment. Two devices, designated SNAP I and SNAP III, will follow this concept. A "proof-of-principle" model of SNAP III has been developed by The Martin Co. The other concept, designated SNAP II, will use the heat from a reactor to operate electrical power conversion equipment. The SNAP Experimental Reactor follows this concept.

### Would Run For Year

The objective of the SNAP reactor program is to provide devices which will generate many kilowatts of electrical energy for a minimum period of one year in space and which will weigh no more than a few hundred pounds. Several hundred thousand pounds of chemical batteries would be required to produce the electrical energy objective of SNAP II. The device must be



SANTA CLAUS JUST WON'T go home—it seems. So The Bulletin is gladly printing this picture of a couple of charming young daughters of a Y-12er being cheered by greetings from St. Nicholas at the Carbide Children's Christmas Parties last month. The youngsters are, from left, Charlotte, 5, and Susie, 3, whose mother is Ellen Hughes, of the Accounting and Budget Department.

## ORCMA To Present Dance Theater Saturday Night

The David Tihmar Dance Theater will be presented in Oak Ridge on Saturday night, January 16, under auspices of the Oak Ridge Civic Music Association. The performance will be offered in the Oak Ridge High School auditorium with curtain time at 8:15 o'clock.

The program will range from classical to modern and combines dance and theater in unique fashion. Franz Schubert's Fantasia in C, Op. 15, is the basis for "The Wanderer." Also in the classical vein is "Don Quixote" by L. Minkus.

The five dancers and moderator switch to the modern theme in "The White Witch of Jamaica" by Siegel-Carroll that portrays a legendary incident from the island of voodoo and calypso. In addition a tribute is paid to Tin Pan Alley balladry in "American Heritage."

The program finale presents an amusing "adult" Western, "Cass Carter, Federal Marshal."

capable of withstanding the shocks and vibrations of a missile launch, must be capable of unattended, reliable, and automatic operation in a space environment and must not present a radiation hazard. Such a device would make possible long-lived weather satellites, world-wide TV communications, deep - space information transmission and eventually interplanetary travel.





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## UCC Erecting Plant At Cartersville, Ga.

### Visking Co. Operating Polyethylene Unit

Union Carbide Corporation has erected a plant to produce polyethylene film at Cartersville, Ga., about 40 miles northwest of Atlanta, Morse G. Dial, chairman of the board, has announced. The plant is being operated by Visking Company, a division of Union Carbide. In addition to polyethylene film, Visking also makes cellulose and plastic food casings.

Howard R. Medici, president of Visking, said that the new polyethylene plant has been built on a 15-acre industrial site just southeast of Cartersville, at the intersection of the Louisville and Nashville Railroad and Old Mill Road.

This will be the fourth plastics film plant operated by this division of Union Carbide. Others are located at Fremont, Cal., Terre Haute, Ind., and Flemington, N.J. Visking's food casings plants are at Chicago, Ill., and Loudon, Tenn.

**Polyethylene Uses Are Many**  
An important use of Visking's polyethylene film, which is marketed under the trade mark Visking, has been in the fabrication of balloons to carry scientific instruments into space for recording cosmic rays and weather data. Its major outlet, however, is in the flexible packaging field where it is used for wrapping food products and produce, textiles, hardware, chemicals, and many other items. The film also is widely used in the construction industry as a vapor barrier and for temporary enclosures, and by the agricultural industry for plastic silos.

Medici stated that Visking had explored many possible plant locations before selecting Cartersville. Key factors influencing the decision to locate there were the availability of good employees; favorable transportation for shipment of raw materials and finished products; adequate sources of power, natural gas, and water; and a community seriously interested in having new industry in the area.

## Riflemen Of Y-12 Extend Loop Lead

The Y-12 rifle team in the Oak Ridge Sportsmen's Winter League maintained their first place margin by two points over the Oak Ridge National Laboratory gunmen the easy way January 4 by taking a forfeit win from the Independents. In firing for record the Y-12ers posted a scratch score of 1362 and handicap tally of 1440.-253.

Individually, the Y-12 marksmen were closely bunched. W. Davis had 277, O. Cottrell 275, Carl Brewster 274, Dave Dewalt 272 and E. Brady 264. In handicap scoring it was Davis 289.054, Mike Crews 288.732, E. Blay 287.-953, J. Ledbetter 287.279 and Cottrell 287.279.

League standing follows:

Team	W	L
Y-12	15	1
ORNL	13	3
ORGDP	4	12
Independents	0	16

## Reactors Post Two Basketball Wins

### Beta Four Quintet Split Even In Pair

Y-12 cagers in the Carbide Basketball League perked up a bit last week with a pair of floor victories over Oak Ridge Gaseous Diffusion Plant quintets. The Reactors took a squeaker from the See Reds by 36 to 33 and the Beta Fours trounced D Shift by 46 to 33. The Beta Four outfit had to settle for an even break for the week, however, as the league-leading Lab Demons from ORGDP handed them a 46 to 31 defeat. The Reactors got credit for another win when the Y-12 Hawks had to forfeit because of lack of a quorum.

The Reactors, idle for a couple of weeks, had their hands full with the See Reds. The Y-12ers trailed at halftime, then had to rally strongly in the third period to clinch the win. Lew Fitzgerald led the winners with 11 points. Both teams had 14 field goals and the difference was at the free-throw line.

Beta Four's Bryson again was the featured player on his team in both of that outfit's two outings. Against D Shift the Y-12ers got out in front early and stayed there. Bryson slipped 15 points through the hoops, Vaughan had 12 and Brady 10 for the victors. However, the Lab Demons reversed the tables after a slow first half by both teams and coasted in. Bryson bagged 14 points in this one to be high point man of the game.

Scores by periods and league standing follows:

Team	1st	2nd	3rd	Total
See Reds	9	18	25	33
Reactors	7	16	30	36
D Shift	7	11	21	33
Beta Four	12	25	40	46
Lab Demons	5	15	34	46
Beta Four	3	10	17	31

Team	W	L
Lab Demons	5	0
Reactors	3	0
Beta Four	2	2
All Stars	4	1
Hot Shots	1	1
See Reds	2	3
Hawks	1	2
D Shift	1	2
Atoms	0	3
Ramblers	0	3

## Mixed Loop Opens With Triple Tie

The Pin Plasters, winners of the first half of the season in the Mixed League; the Cool Cats, who cooled the cellar of the loop for most of the season but rallied nicely toward the midway point; and the Phantoms each won three points for a tie for first place as the second round of play started last week. The victims were the Nip and Tucks, Alley Cats and Scrappers. The Toppers and Goofers ended up in a two-point deadlock.

Tom Hillard, consistently the high scoring man in the loop, again topped the boards with a 223 scratch and 243 handicap game and 588 scratch series. Lynn Cabe, Cool Cats, had a 672 handicap series for tops of the night. On the distaff side Dorothy "Bill"

## Three Teams Tied For Classic Lead

### Victors Whitewash Victims In Matches

The Swingsters took up right where they left off at the end of the first half of the season in the Classic League of Y-12 pin pounders, when they took the period title, by blanking the All Stars for four points last Thursday night as the final round opened. The Bumpers, third place team in the opening round of play, applied a similar defeat on the Sportsmen, the first half second place team. Another shutout was posted by the Wasps over the Rippers to leave these three winners in a three-way deadlock for the top spot in the standings. Three-point triumphs were recorded by the Markers over the Screwballs, Rebels over the Smelters, Cubs over the Has Beens, Wolves over the Playboys and Tigers over the Eight Balls.

New high individual and team scoring marks were set in both single game and series marks last week. Jack Spears, Rebels, had the top triplet tallies with a 629 scratch and 677 handicap score. J. P. Smith, Markers, rolled a 241 scratch and 262 handicap game for tops. The Markers' 1103 handicap game was high of the night as was the Swingsters' 3055 handicap series.

League standing follows:

Team	W	L
Swingsters	4	0
Bumpers	4	0
Wasps	4	0
Markers	3	1
Rebels	3	1
Cubs	3	1
Wolves	3	1
Tigers	3	1
Eight Balls	1	3
Playboys	1	3
Has Beens	1	3
Smelters	1	3
Screwballs	1	3
Sportsmen	0	4
Rippers	0	4
All Stars	0	4

## Volleyball League Lead Deadlocked

Both leading teams in the Carbide Volleyball League took three-point victories over Y-12 outfits last week to maintain the tie for first place. The Oak Ridge Gaseous Diffusion Plant A Shift beat the Y-12 Hunters 15-10, 15-4, 15-4 and the Oak Ridge National Laboratory Set Ups clipped the wings of the Y-12 Eagles 15-4, 15-11, 15-12. The Eagles got an even split for the week, however, by beating the ORGDP Spikers 15-13, 6-15, 15-13. In the other match of the week the ORGDP Process Engineers trimmed the ORGDP MIT outfit 15-3, 15-5, 15-5.

League standing follows:

Team	W	L
A Shift	11	1
Set Ups	11	1
Process Engineers	6	6
Eagles	7	8
Spikers	5	7
Hunters	4	8
MIT	4	8
C Shift Cats	0	9

Grizzell, Pin Plasters, had the best game scores of 182 and 243 with Lettie Ault, Cool Cats, rolling a 498 scratch and 645 handicap series for best of the session. The Cool Cats had the best team series scores of 1934 and 2435 while the Pin Plasters led in single game marks at 667 and 829.

League standing follows:

Team	W	L
Pin Plasters	3	1
Cool Cats	3	1
Phantoms	3	1
Toppers	2	2
Goofers	2	2
Alley Cats	1	3
Nip and Tucks	1	3
Scrappers	1	3



A STRONG CONTENDER in the 1959 Y-12 Fishing Contest, just closed, is this fine bream caught by A. J. Naleppa, Jr., of the Graphite Shop. He took the bream on a night crawler bait from Citico Creek.

## Fishing Contest Entry Deadline Friday, January 15

Y-12 fishermen are reminded that they have only until 4 o'clock on Friday afternoon of this week, January 15, to file entries for competition in the 1959 Annual Fishing Contest. The contest officially closed on December 31, but the additional two weeks is allowed to submit the entries with the Recreation Department, Room 145, Bldg. 9704-2.

The entries on hand January 15 will be judged on Monday, January 18, at the Recreation Department. The results will be announced in The Bulletin on Wednesday, January 27. As of last Friday 45 entries had been filed.

Valuable prizes of sports equipment for outdoor use will be awarded winners in each specie of fish eligible for awards.

Meanwhile, the 1960 Annual Fishing Contest now is under way. Rules for this contest are the same as for the 1959 event and are printed on each entry blank. The entry blanks may be obtained from the Recreation Department and also from members of the shift recreation committees.

## Skeet Shooting Opens January 17

Y-12 skeet shooting enthusiasts will get a chance for competition, and, if sufficient interest is evidenced, a league in the popular target sport may be formed next year.

An invitation has been issued to every Y-12er wanting to try his skill at the clay pigeon shooting sport to turn out at 1 o'clock next Sunday afternoon, January 17, at the Oak Ridge Sportsmen's Association. As many employees have expressed a desire to get the sport started, a good attendance is expected.

Present plans for the skeet shooting call for meeting every other Sunday.

It is necessary that all Y-12ers intending to fire on scheduled days for shooting register at the Y-12 Recreation Office not later than 9 o'clock on the Wednesday morning preceding the Sunday on which shooting is scheduled. The Recreation Department is in Room 145, Bldg. 9704-2, plant telephone 7100 or 7109. This is required so that the Sportsmen's Association may have ample ammunition and other equipment on hand for the firing.

The cost to each shooter will be \$3.50 per round of 25 shots. This cost will include cost of ammunition, clay pigeon targets and fees for trap boys. Each contestant need only to bring his own shotgun along for the firing. Contestants may bring guests, but such guests must be registered at the Recreation Department in the same manner as regular participants.

## Bush Alley Cats Clinch First Half

### Nine Pins Blanked By Period Winners

Following in the footsteps of their fellow feline bowlers of the C League in Y-12, the Alley Cats team of the Bush League clinched the first half championship in that circuit January 4 with a convincing four-point whitewash win over the Nine Pins. The Balls O' Fire, in contention most of the season, could only break even with the Inspectors at two points each to end up five points behind when the timber toppling ceased on January 4 and the first half schedule running out on Monday night of this week, January 11.

## GRIGG WINS BOWLING BALL IN ARK LANE DRAWING

In addition to helping his fellow Alley Cats near the first half of the season title in the Bush League January 4, D. T. Grigg had reason to be happy. In a drawing at the Ark Lanes on December 26 he won a bowling ball in a drawing at the alleys.

In the C League the other Alley Cat team had won the first half title in that loop December 21.

The other matches in the Bush League found three-point wins posted by the Beavers over the Rollniks, Hi Balls over the Alley Gators and Hot Rodders over the Lucky Five.

Despite their failure to win, the Balls O' Fire had three of the top team scores of the season with an 876 scratch and 1039 handicap game and 2467 scratch series. The Nine Pins got into the act with a 2992 handicap series for tops. Spence Ferguson, Nine Pins, hogged most of the individual scoring leads with a 219 scratch and 261 handicap game and 643 handicap series. Jack Forseman, Lucky Five, also bagged a 219 scratch game. Jack Cox, High Balls, had a most respectable 552 scratch series for best of the night.

League standing follows:

Team	W	L
Alley Cats	47 1/2	20 1/2
Balls O' Fire	42 1/2	25 1/2
Beavers	40	28
Lucky Five	38 1/2	29 1/2
Inspectors	38	30
Hi Balls	36	32
Rollniks	31 1/2	36 1/2
Nine Pins	28	40
Alley Gators	19	49
Hot Rodders	19	49

## Sunflowers Bloom Again In C Loop

The Sunflowers bloomed again in the C League of plant bowlers January 4, both as a team and individually, so spring may not be far away. They not only applied a whitewash defeat to D Shift by four points but took all team and most individual scoring honors. The team whacked out a 936 scratch and 1064 handicap game, 2616 scratch and 3030 handicap series. Ray Galford helped out with a fine 621 scratch series and W. B. Stephens posted a 230 scratch game, boosted to 258 with handicap. Veteran Ed Sise, Big Five, got into the act with a 667 handicap series for tops.

In other matches three point wins were posted by the Big Five over the SPs, Engineers over the IBMs, Chillers over the Alley Cats, Par Busters over the Hookers and Knot Heads over Murderer's Row. The defeat by the Alley Cats shoved the first half of the season winners into the cellar.

League standing follows:

Team	W	L
Sunflowers	8	0
Big Five	6	2
Engineers	6	2
IBMs	5	3
Chillers	4	4
D Shift	3	5
Murderer's Row	3	5
SPs	3	5
Par Busters	3	5
Knot Heads	3	5
Hookers	2	6
Alley Cats	2	6

Safeguard all classified matter.